DES-3010PA Managed Layer 2 Fast Ethernet Switch

High-Performance Switching:

+ 5.6Gbps Switching Capacity
+ 8 Ports IEEE 802.3af PoE
+ 802.1s (Multiple Spanning Tree)
+ 802.3w (Rapid Spanning Tree)
+ Bandwidth Control down to 64k
+ 1 x 1000Base-T Port
+ 1 x SFP Slot
+ Small Footprint 11" Chassis

Network Management:

+ SSH/SSL
+ SNMP v1/2c/3
+ RMON (4 Groups)
+ Web GUI
+ Console
+ TACACS+ Authentication
+ RADIUS Client

PoE Power Management:

+ Port Status Monitoring
+ Fast Power Shutdown
+ GUI Power Status Monitoring
+ Auto PD Detection
+ PoE Status Counters & Alerts

Enterprise Features:

+ 802.1p Priority/QoS (4 Queues)
+ Priority-based on DSCP
+ 802.1x (Port & MAC Based Authentication)
+ VLANs (Up to 256)
+ Guest VLAN
+ Private VLANs
+ Internal Power Supply

8-Port 10/100Mbps PoE Switch, 1 x 1000BASE-T Port & 1 SFP

With a 5.6Gbps switching capacity and Power-over-Ethernet (PoE), D-Link's DES-3010PA is a high-performance managed Layer 2 solution that provides an ideal choice for workgroups and departments needing advanced Layer 2 switching features in a small form factor 11" chassis. The DES-3010PA is a great entry-level switch for the SMB just starting out or the already established business looking to bring a managed solution to the desktop. The optional fiber uplink can provide connectivity for a small group of users over a larger distance such as on a campus or between indoor classrooms. The DES-3010PA has eight 10/100Mbps Fast Ethernet ports and an SFP port for high-speed uplinks to servers and/or backbones. In addition the DES-3010PA is also equipped with a copper 1000Base-T port for easy uplinks to standard Gigabit copper switches. Finally, with support for Power-over-Ethernet on all eight ports, the DES-3010PA is capable of supporting IEEE 802.3af enabled access points, security cameras, IP phones and more without the need for additional wiring.

High-Performance Layer 2 Switching

With a 5.6Gbps switching capacity, the DES-3010PA is a wire-speed, high performance switch. It includes support for Private VLANs (for isolating ports to protect privacy), and Guest VLANs. Guest VLANs are useful when migrating end users to an 802.1x environment when existing workstations do not yet support the 802.1x protocol, and for delivering limited services such as Internet access to un-authenticated and short-term users. When deployed in a school campus, bookstore, coffee house, or other retail establishment, the DES-3010PA can be used in conjunction with wireless access points to create a secure Internet Hotspot. This allows visitors to access special services or surf the Internet completely isolated from sensitive internal network data. And with the addition of up to 15.4 watts of PoE per port, powering those wireless access points has never been easier.

Advanced Enterprise Features

The DES-3010PA brings advanced enterprise functions to a more affordable level while supporting advanced features: QoS/CoS based on 802.1p, Port, DSCP and ToS, rich security and management features such as 802.1x port and MAC based RADIUS and TACACS+ authentication, secure encrypted management through both SSH and SSL, guest and private VLANs, bandwidth control, and SNMP versions 1/2c/3. The DES-3010PA also supports many of the features you would expect to see on a larger managed solution such as: IGMP snooping, IEEE802.3ad (Link Aggregation), 256 VLANs, support for GVRP, traffic monitoring, SYSLOG, and more.

IEEE 802.3af Power over Ethernet

The DES-3010PA supports eight ports of IEEE 802.3af (PoE) and supplies up to 15.4 watts per port to power any 802.3af compliant power device. The need for PoE-enabled switching devices is growing as the industry continues to produce PoE capable access points, IP phones, security cameras, PDA cradles, and more. The difficulty and cost often associated with running new AC power outlets to difficult to reach locations has made PoE an indespensable technology for SMBs, Schools, and Enterprise class networks. For devices that are not IEEE 802.3af compliant, the D-Link DWL-P50 adapter can be used to supply power to the device making it fully compatible with the DES-3010PA.

Advanced Power Management

The DES-3010PA includes advanced PoE power management capabilities not found in unmanaged PoE solutions. These features include individual port status monitoring, fast power shutdown (in the case of power supply failure) and voltage/current monitoring and regulation. Power management allows the DES-3010PA to determine the exact power draw per port and to balance each port's PoE power output accordingly. This in turn allows the switch to power higher and lower wattage devices according to user-definable parameters such as: maximum available power, port priority (critical, high, low), and maximum allowable power per port. To further assist the user in status and troubleshooting, the user can view the following statistics from the CLI or GUI at any remote location within the network: Powered Device (PD) classification, Status and detection of the PD, Power status monitoring (actual power usage and percentage used), and counters to measure shorts and overloads.

D-Link® DES-3010PA Managed Layer 2 Fast Ethernet Switch

8-Port 10/100Mbps PoE Switch, 1 x 1000BASE-T Port & 1 SFP

Technical Specifications

Product specifications

DES-3010PA	Managed Layer 2 Switch with (8) 10/100Mbps PoE Ports and (1) Gigabit SFP and (1) 1000BASE-T copper port
Switch Fabric	5.6Gbps
Transmission Method	Store-and-Forward
VLANs	Support up to 256 VLAN Groups
Priority Queues	4 Queues
Packet Buffer	128KB
Multicast Support	IGMP Snooping

Interface Options

RJ-45	10BASE-T, 100BASE-TX & 1000BASE-T
SFP/mini-GBICs	1000BASE-X support based on Type of SFP, LC

Network Management

In & Out of Band	Telnet, CLI/Console, RMON, Web-based HTTP, SNMPv1/2/3, Port Mirroring, SSH 2.0, SSL

Network Protocols and Standards

IEEE	802.3 Ethernet, 802.3u Fast Ethernet, 802.1D Spanning Tree, 802.1w Rapid Spanning Tree, 802.1s Multiple Spanning Tree, 802.1p Priority Tags (4 queues), 802.3ad Link Aggregation Control (8 ports per group/6 groups per device), 802.3xFlow Control, 802.1x (Port & MAC Based Network Access Control), 802.1Q VLANs (up to 256), Private VLANs, Guest VLANs, 802.3af Power-over-Ethernet
IETF	RFC1757 RMON (4 Groups), RFC1493 Bridge, RFC1643 Ether-like MIB, RFC2358 ETHER LIKE_MIB, RFC2674
Additional Features	IGMP Snooping, Telnet, TFTP Client, BootP Client, DHCP Client, SNMP v1/2c/3, Rate Limiting down to 64k , QoS classification based on ToS, Traffic Monitoring, MAC address browsing, Port Description, CPU Utilization Monitoring, SNTP, Radius Authentication, TACACS+ Authentication, Auto-Negotiation, Port Mirroring, Broadcast Storm Control, SYSLOG, GVRP

Electrical & Emissions Summary

Emissions	FCC Class A
Power Supply	AC Input: 100 - 240 VAC, 50-60 Hz
PoE Power per port Maximum	15.4 watts
PoE Power Budget	110 watts
Power Consumption	130 watts

Safety Agency Certifications and Environmental

Safety	CUL, CE, VCCI
Temperature	Operating: 32 ~ 122°F (0 ~ 50°C) Storage: 14 ~ 158°F (-10 ~ 70°C)
Humidity	Operation: 10%-90% RH Storage: 5% ~ 90% RH

Physical Specifications

Dimensions (Dx W x H)	7.09 x 11 x 1.7in (330 x 280 x 44mm)
Weight	3.92lbs (1.8kg)

8-Port 10/100Mbps PoE Switch, 1 x 1000BASE-T Port & 1 SFP

Warranty Information

Warranty[1]	Limited Lifetime Warranty for as long as the original customer/end user owns the product, or five years after product discontinuance, whichever occurs first (excluding power supplies and fans).

Ordering Information

Part Number	Description
DES-3010PA	Managed Layer 2 PoE Switch with 8 x 10/100Mbps Ports and 1 x Gigabit SFP and 1 x 1000BASE-T copper port
DES-3010PA-TAA	TAA compliant version of DES-3010PA
DEM-310GT	1000BASE-LX SFP/mini-GBIC Up to 10Km (singlemode)
DEM-311GT	1000BASE-SX SFP/mini-GBIC Up to 550m
DPS-510	Redundant Power Supply

[1] Limited Lifetime Warranty available only in the U.S.A. and Canada

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